

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 0005		3. EFFECTIVE DATE 05 March 2004		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS 4101 JEFFERSON PLAZA, N.E. ALBUQUERQUE, NEW MEXICO 87109-3435		CODE		7. ADMINISTERED BY (If other than Item 6)		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)				(✓) 9A. AMENDMENT OF SOLICITATION NO. W912PP-04-R-0004			
				X 9B. DATED (SEE ITEM 11) January 2004			
				10A. MODIFICATION OF CONTRACTS/ORDER NO.			
				10B. DATED (SEE ITEM 13)			
CODE		FACILITY CODE					

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☒ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

PROJECT: DESIGN/BUILD, UPGRADE NATIONAL RADAR CROSS-SECTION (RCS) TEST FACILITY, WHITE SANDS MISSILE RANGE, OTERO COUNTY, NEW MEXICO

1. This is Amendment No. 5 to Solicitation No. W912PP-04-R-0004; 20 January 2004. The following revisions shall be incorporated into the specifications. All other provisions shall remain unchanged.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		BY (Signature of Contracting Officer)	

2. SPECIFICATIONS: Delete the following listed pages and substitute the pages attached hereto. On the revised pages, for convenience, changes are emphasized by the amendment number in parentheses before and after changes from the previous issue. All portions of the revised (or new) pages shall apply whether or not changes have been indicated.

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////////LAST ITEM////////

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3.4.3 Periodic Schedule Updates

Based on the result of progress meetings, specified in "Periodic Progress Meetings," the Contractor shall submit periodic schedule updates. These submissions shall enable the Contracting Officer to assess Contractor's progress. If the Contractor fails or refuses to furnish the information and project schedule data, which in the judgment of the Contracting Officer or authorized representative is necessary for verifying the Contractor's progress, the Contractor shall be deemed not to have provided an estimate upon which progress payment may be made.

3.4.4 Standard Activity Coding Dictionary

The Contractor shall use the activity coding structure defined in the Standard Data Exchange Format (SDEF) in ER 1-1-11, Appendix A (see attachment). This exact structure is mandatory, even if some fields are not used.

3.5 SUBMISSION REQUIREMENTS

The following items shall be submitted by the Contractor for the preliminary submission, initial submission, and every periodic project schedule update throughout the life of the project:

(5) 3.5.1 Creating the Electronic Data Exchange File

The Contractor shall have the option of creating the electronic data exchange file by one of the three following methods:

3.5.1.1 Commercially Available Software

The Contractor shall use Primavera Project Planner (latest edition) by Primavera Systems Inc. to provide the project schedule in the SDEF.

3.5.1.2 Interface Program

Under this option the Contractor shall produce specific data translation software. This software shall take the information provided by the Contractor's scheduling system and reformat the data into the SDEF.

3.5.1.3 Manual Methods

Under this option the scheduling system report files produced by the Contractor's scheduling system shall be manually reformatted for input into the SDEF or the data shall be directly entered manually into the SDEF.

3.5.2 Data Disks

(5)

Two data disks containing the project schedule shall be provided. Data on the disks shall adhere to the SDEF format specified in ER 1-1-11, Appendix A.

(5) 3.5.2.1 File Medium (5)

Required data shall be submitted on 3.5 disks, formatted to hold 1.44 MB of data, under the MS-DOS Version 5. or 6.x, unless otherwise approved by the Contracting Officer.

(5) 3.5.2.2 Disk Label (5)

A permanent exterior label shall be affixed to each disk submitted. The label shall indicate the type of schedule (Preliminary, Initial, Update, or Change), full contract number, project name, project location, data date, name and telephone number of person responsible for the schedule, and the MS-DOS version used to format the disk.

(5) 3.5.2.3 File Name (5)

Each file submitted shall have a name related to either the schedule data date, project name, or contract number. The Contractor shall develop a naming convention that will ensure that the names of the files submitted are unique. The Contractor shall submit the file naming convention to the Contracting Officer for approval.

(5) 3.5.3 Narrative Report (5)

A Narrative Report shall be provided with the preliminary, initial, and each update of the project schedule. This report shall be provided as the basis of the Contractor's progress payment request. The Narrative Report shall include: a description of activities along the 2 most critical paths, a description of current and anticipated problem areas or delaying factors and their impact, and an explanation of corrective actions taken or required to be taken. The narrative report is expected to relay to the Government, the Contractor's thorough analysis of the schedule output and its plans to compensate for any problems, either current or potential, which are revealed through that analysis.

(5) 3.5.4 Approved Changes Verification (5)

Only project schedule changes that have been previously approved by the Contracting Officer shall be included in the schedule submission. The Narrative Report shall specifically reference, on an activity by activity basis, all changes made since the previous period and relate each change to documented, approved schedule changes.

(5) 3.5.5 Schedule Reports (5)

The format for each activity for the schedule reports listed below shall contain: Activity Numbers, Activity Description, Original Duration, Remaining Duration, Early Start Date, Early Finish Date, Late Start Date, Late Finish Date, Total Float. Actual Start and Actual Finish Dates shall be printed for those activities in progress or completed.

- (5) 3.5.5.1 Activity Report (5)
- A list of all activities sorted according to activity number.
- (5) 3.5.5.2 Logic Report (5)
- A list of Preceding and Succeeding activities for every activity in ascending order by activity number. Preceding and succeeding activities shall include all information listed above in paragraph Schedule Reports. A blank line shall be left between each activity grouping.
- (5) 3.5.5.3 Total Float Report (5)
- A list of all incomplete activities sorted in ascending order of total float. Activities which have the same amount of total float shall be listed in ascending order of Early Start Dates. Completed activities shall not be shown on this report.
- (5) 3.5.5.4 Earnings Report (5)
- A compilation of the Contractor's Total Earnings on the project from the NTP until the most recent Monthly Progress Meeting. This report shall reflect the Earnings of specific activities based on the agreements made in the field and approved between the Contractor and Contracting Officer at the most recent Monthly Progress Meeting. Provided that the Contractor has provided a complete schedule update, this report shall serve as the basis of determining Contractor Payment. Activities shall be grouped by bid item and sorted by activity numbers. This report shall: sum all activities in a bid item and provide a bid item percent; and complete and sum all bid items to provide a total project percent complete. The printed report shall contain, for each activity: the Activity Number, Activity Description, Original Budgeted Amount, Total Quantity, Quantity to Date, Percent Complete (based on cost), and Earnings to Date.
- (5) 3.5.6 Network Diagram (5)
- The network diagram shall be required on the initial schedule submission and on monthly schedule update submissions. The network diagram shall depict and display the order and interdependence of activities and the sequence in which the work is to be accomplished. The Contracting Officer will use, but is not limited to, the following conditions to review compliance with this paragraph:
- (5) 3.5.6.1 Continuous Flow (5)
- Diagrams shall show a continuous flow from left to right with no arrows from right to left. The activity number, description, duration, and estimated earned value shall be shown on the diagram.

(5) 3.5.6.2 Project Milestone Dates (5)

Dates shall be shown on the diagram for start of project, any contract required interim completion dates, and contract completion dates.

(5) 3.5.6.3 Critical Path (5)

The critical path shall be clearly shown.

(5) 3.5.6.4 Banding (5)

Activities shall be grouped to assist in the understanding of the activity sequence. Typically, this flow will group activities by category of work, work area and/or responsibility.

(5) 3.5.6.5 S-Curves (5)

Earnings curves showing projected early and late earnings and earnings to date.

3.6 PERIODIC PROGRESS MEETINGS

Progress meetings to discuss payment shall include a monthly onsite meeting or other regular intervals mutually agreed to at the preconstruction conference. During this meeting the Contractor shall describe, on an activity by activity basis, all proposed revisions and adjustments to the

TITLE AND LOCATION: Upgrade National Radar Cross Section (RCS) Test Facility
Holloman Air Force Base, NM

* CONTRACTOR: * SPECIFICATION SECTION:

NAS CODE (a)	ITEM NO. (b)	SPECIFICATION PARAGRAPH NO. (c) *	DESCRIPTION OF SUBMITTAL (d)	TYPE OF SUBMITTAL (e) **	CLASS (f) ***	CONTRACTOR SUBMITTAL DATES			CONTRACTOR ACTION			GOVERNMENT		
						APPROVAL NEEDED BY (h)	SUBMIT (g)	MATERIALS NEEDED BY (i)	CODE (j)	DATE (k)	SUBMIT TO GOVT (l)	CODE (m)	DATE (n)	REMARKS (o)
(5)	01720-		WORKING AS-BUILT 50% AND 100% PLANS	SD-02	G									
	01720-		FINAL AS-BUILT PLANS	SD-11	G									
	01730-		VIDEO CONTRACTOR QUALIFICATIONS	SD-11	FIO									
	01730-		VIDEOGRAPHIC DOCUMENTATION PLAN	SD-10	FIO									
	01730-		OPERATION AND MAINTENANCE INSTRUCTIONS	SD-10	GA									

* This paragraph number should be the paragraph(s) which refer to the applicable criteria for the material or equipment described.

** See Section 01330 for descriptions of the Types of Submittals.

*** CLASS = Classification where G indicates "Government Approval" submittals and FIO indicates "For Information Only" submittals.

W912PP-04-R-0004
Amendment No. 5

SECTION 01720

AS-BUILT DRAWINGS

PART 1 - GENERAL

1.1 AS-BUILT DRAWINGS

The Contractor shall produce the working as-built drawing prints from the design drawings approved by the Government. The working as-built drawing prints shall be kept at the construction site for mark-up by the Contractor to record all as-built conditions. Once approved by the Government the Contractor shall transfer the information recorded as the working as-built drawings to the final as-built drawings.

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 - SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Working As-built Drawings; G.

Working as-built drawings showing conditions of the project at 50% and 100% (final) construction complete. The working as-built drawing submittals shall consist of the following:

- a. One (1) set of the working as-built drawings (red line markup).
- b. One (1) copy of the working as-built CADD drawing files on compact disc.
- c. One (1) set of prints of the working as-built CADD drawings.

SD-07 Certificates

CADD Operator Qualifications; FIO.

Documentation of experience, instruction, and certification used to establish the proficiency of the CADD operator providing the as-built CADD drawing files.

SD-11 Closeout Submittals

As-Built Drawings; G.

Drawings showing final as-built conditions of the project. The final as-built drawing submittal shall consist of the following:

- a. Three (3) complete copies of the CADD drawing files on separate compact discs.
- b. One (1) set of reproducible bond paper drawings.
- c. Two (2) sets of full-size prints.
- d. Two (2) sets of half-size prints.
- e. One (1) set of approved working as-built prints.

1.3 WORKING AS-BUILT DRAWINGS

The working as-built drawing prints and working as-built drawing CADD files shall be revised to show the as-built conditions during the prosecution of the project. Changes from the approved design drawings which are made in the work or additional information discovered or provided in the course of construction shall be accurately and neatly recorded as changes or additions to the approved design drawings.

1.3.1 Content of Working As-Built Drawings

The working as-built drawings shall include, but not be limited to, the following information:

- a. The location and description of any utility lines or other installations of any kind or description known to exist within the construction area. The location of exterior utilities includes actual measured horizontal distances from utilities to permanent facilities/features. These measurements shall be within an accuracy range of 300 mm (6 inches) and shall be shown at sufficient points to permit easy location of utilities for future maintenance purposes. Measurements shall be shown for all change of direction points and all surface or underground components such as valves, manholes, drop inlets, clean outs, meter, etc. The general depth range of each underground utility line shall be shown (i.e., 1 m (3 ft) depth). The description of exterior utilities includes the actual quantity, size, and material of utility lines.

- b. The location and dimensions or any changes within the building or structure.

- c. Correct grade or alignment of roads, structures or utilities if any changes were made from the approved design drawings.

- d. Correct elevations if changes were made in site grading.

- e. Changes in details of design or additional information obtained from working drawings specified to be prepared and/or furnished by the Contractor including but not limited to fabrication, erection, installation plans and

placing details, pipe sizes, insulation material, dimensions of equipment foundations, etc.

f. The topography and grades of all drainage installed or affected as a part of the project construction.

g. Options: Where approved design drawings or specifications allow options, only the option selected for construction shall be shown on the as-built drawings.

h. Shop drawings containing as-built information shall be incorporated into the working as-built drawings. This additional information may be added to an existing working as-built drawing or may require the addition of a new drawing to the working as-built drawing set.

i. A listing of changes made to the approved design drawings indicating date, location, discipline, drawing sheet number, and short description.

1.3.2 Quality Control of Working As-Built Drawings

Subject to the approval of the Contracting Officer, a member of the Contractor's Quality Control Organization shall be assigned sole responsibility for the maintenance and currency of working as-built drawings. Any reassignment of duties concerning the maintenance of the as-built drawings shall be promptly reported to the Contracting Officer.

1.3.3 Withholding for Working As-Built Drawings

The working as-built marked prints will be jointly reviewed for accuracy and completeness by the Contracting Officer and the Contractor prior to submission of each monthly pay estimate. If the Contractor fails to maintain the working as-built drawings as specified herein, the Contracting Officer will deduct from the monthly progress payment an amount representing the estimated cost of maintaining the as-built drawings and will continue the monthly deduction until an agreement can be reached between the Contracting Officer and the Contractor regarding the accuracy and completeness of the updated drawings.

1.4 FINAL AS-BUILT DRAWINGS

The final as-built drawings shall be the final record of construction as installed and completed by the Contractor and as indicated on the working as-built drawings. All changes, variations and/or required additions to the approved design drawings shall be included. In the event the Contractor accomplishes additional work which changes the as-built conditions of the facility after submission of the final as-built drawings, the Contractor shall furnish revised and/or additional drawings as required to depict as-built conditions. The requirements for these additional drawings will be the same as for the as-built drawings included in the original submission.

1.4.1 Withholding for Final As-Built Drawings

An item entitled "Final As-Built Drawings" has been placed in the Bid/Proposal Schedule. The amount for this item is established by the Contracting Officer and does not reflect the actual cost of providing Final As-Built Drawings. The amount indicated in the item will be withheld from payment to the Contractor until the Final As-Built Drawings have been approved and accepted by the Contracting Officer.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 WORKING AS-BUILT DRAWINGS

The Contractor shall mark up two (2) sets of paper prints by the red-line process to show the as-built conditions. The as-built marked prints shall be kept current on a weekly basis and available on the jobsite at all times. The Contractor shall maintain current CADD drawing files to reflect all changes recorded on the working as-built drawings.

3.1.1 Review of Working As-Built Drawings

3.1.1.1 Review at 50% Construction Complete

One set of the working redline as-built drawings, one copy of the working as-built CADD files on compact disc, and one set of prints of the working as-built CADD drawings shall be delivered to the Contracting Officer when construction is 50% complete. The working as-built drawings shall be returned to the Contractor after Government review. The CADD files and prints made from the CADD files will be retained by the Government.

3.1.1.2 Review at Final Inspection

One set of the working as-built drawings, one copy of the working as-built CADD files on compact disc, and one set of prints of the working as-built CADD drawings shall be delivered to the Contracting Officer for review and approval 30 days prior to scheduling of the final inspection. The Contractor shall include a milestone in the project schedule for submission of the final working as-built drawings. Final inspection will not be scheduled by the Contracting Officer until working as-built drawings have been received. After completion of the final inspection the Government will return the copy of the working as-built drawings for corrections. The Contractor shall complete the corrections and return the working as-built drawings to the Contracting Officer within ten (10) calendar days. Upon approval, the corrected working as-built drawings will be returned to the Contractor for use in preparation of the final as-built drawings.

3.2 FINAL AS-BUILT DRAWINGS

After receipt of the approved as-built working drawings, the Contractor shall revise the CADD drawings to reflect the as-built changes to match the approved working as-built drawings.

3.2.1 Submittal of Final As-Built Drawings

The Contractor shall have 30 days after final approval of the working as-built drawings to complete and provide the final as-built drawings submittal.

3.3 COMPUTER AIDED DESIGN AND DRAFTING (CADD) DRAWINGS

References, information, and standards for CADD drawings are provided in the Appendix.

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